

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A Program Clock Reference (PCR) correction method in a transmission over a downlink in an integrated multispot satellite communication system (S) in which said downlink is transmitted in burst mode and comprises a plurality of multiplexed, modulated and compressed packets, corresponding to at least one user (a1, a2, b1, c1, c2, c3 and c4), ~~characterised in that said~~ wherein said method of correcting a Program Clock Reference correction is comprises calculating ~~in terms of a distance (d) defined between a real position of a packet (a12) and an estimated position of said packet, the estimated position being that which said packet (a12) would occupy if the downlink had not been compressed in a modulation and compression stage.~~

2. (currently amended): ~~Method~~ The method of claim 1, wherein ~~which~~ said PCR correction is defined by ~~means of~~ the following formula:

$$C_{PCR} = t_{dpack} \cdot d$$

where:

“C_{PCR}” is the correction factor;

“d” is the distance between the real position and the estimated position of the packet; and

“t_{dpack}” is the duration in time of a packet in the downlink frame.

3. (previously presented): Method according to claim 1 in which said distance (d) is defined by means of the following formula:

$$d = n_d - \frac{n_{dt}}{n_{ut}} \cdot n_u$$

where:

n_d is the number of the downlink position of the packet in process;

n_{dt} is the total number of packets in the downlink frame;

n_{ut} is the total number of packets per frame and user; and

n_u is the number of the uplink position of the packet in process.

and where both n_d and n_u start counting from zero.

4. (previously presented): Method according to claim 1 in which said transmission is carried out in MPEG2 transport streams in TDMA format.

5. (currently amended): An ~~Integrated-integrated~~ multispot satellite communication system (S) for carrying out the method of claim 1.